

Third Grade Math Pacing Guide

A Year at a Glance 2016 – 2017

Math Investigations Unit		Time Frame	CC Math Standards
Quarter 1	<p>*Begin the year by introducing the Mathematical Practices and establishing your mathematical community.</p> <p>Unit 1 – Trading Stickers, Combining Coins <i>Addition, Subtraction, and the Number System 1 (17 Lessons, 14 Days)</i></p> <p>Investigation 1: Hundreds, Tens, and Ones – 9 Lessons</p> <p>Investigation 2: Working with 100 – 8 Lessons (Sessions 2.1 and 2.5 may be omitted or combined depending on students' fluency with addition combinations.)</p> <p>*Select lessons in Units 1 and 3 based on students' place value understanding and computational fluency. Sessions may be combined, adapted, or omitted.</p>	August 29 – September 16 3 weeks	3.NBT.1 3.NBT.2 3.OA.8 3.OA.9
	<p>Unit 3 – Collections and Travel Stories <i>Addition, Subtraction, and the Number System 2 (26 Lessons, 25 Days)</i></p> <p>Investigation 1: Building 1,000 – 7 Lessons (Additional lesson -- Session 1.7A: Rounding Whole Numbers)</p> <p>Investigation 2: Addition – 7 Lessons</p> <p>Investigation 3: Finding the Difference – 6 Lessons (Session 3.1 may be omitted or combined with other sessions depending on students' fluency with subtraction facts.)</p> <p>Investigation 4: Subtraction Stories – 6 Lessons</p>	September 19 – October 21 5 weeks	3.NBT.1 3.NBT.2 3.OA.8 3.OA.9 3.MD.1
	<p>Unit 5 – Equal Groups <i>Multiplication and Division (26 Lessons, 37 Days)</i></p> <p>Investigation 1: Things That Come in Groups – 4 Lessons</p> <p>Investigation 2: Skip Counting and 100 Charts – 6 Lessons</p> <p>Investigation 3: Arrays – 9 Lessons (Additional lesson -- Session 3.1A: What's the Area?) (Omit Session 3.5 and replace with Session 3.5A: Using What You Know and Session 3.5B: Learning Multiplication Combinations) (Additional lesson -- Session 3.7A: Multiplying by Multiples of 10)</p> <p>Investigation 4: Understanding Division – 7 Lessons</p> <p>*Additional lessons needed to address the multiplication and division standards.</p>	October 24 – December 20 7 weeks	3.OA.1 3.OA.2 3.OA.3 3.OA.4 3.OA.5 3.OA.6 3.OA.7 3.OA.8 3.OA.9 3.NBT.3 3.MD.7
Quarter 2	<p>Unit 4 – Perimeter, Angles, and Area (40 Possible Lessons, 21 Days) <i>2-D Geometry (6 Lessons)</i></p> <p>Investigation 3: Triangles, Quadrilaterals, and Angles – 6 Lessons</p> <p>*Begin with Investigation 3 to introduce geometry concepts.</p> <p>*Additional lessons may be needed to address the geometry standard (3.G.1).</p>	January 3 – February 3 4 weeks	3.G.1 3.MD.5 3.MD.6 3.MD.7 3.MD.8
	<p>Unit 4 – Perimeter, Angles, and Area <i>Measurement (Perimeter/Area) (12 Lessons)</i></p> <p>Investigation 1: Linear Measurement – 5 Lessons</p> <p>Investigation 2: Understanding and Finding Area – 7 Lessons</p> <p>*These lessons are optional and can be used to introduce or reinforce perimeter and area concepts.</p> <p>DPI Area and Perimeter Unit (22 Lessons)</p> <p>*Use the unit to introduce or reinforce area and perimeter concepts.</p>	*Continue unit into Quarter 3	3.NBT.1 3.NBT.2

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Quarter 3	Unit 9 – Solids and Boxes <i>Measurement</i> (3 Lessons, 10 Days) Investigation 1: Sorting, Describing, and Building Solids – Omit Investigation 2: Making Boxes – Omit Investigation 3: How Many Cubes in a Box? – Omit Investigation 4A: Liquid Volume and Weight and Mass (Additional Lessons -- Sessions 4A.1 – 4A.3) *Standard 3.MD.1 (time) is addressed throughout the year during Ten-Minute Math lessons. Additional lessons will be needed to support this standard. *Additional lessons and supplemental resources will be needed to teach measurement concepts including time, mass, and liquid volume.	February 6 – February 17 2 weeks	3.MD.1 3.MD.2 3.NBT.1 3.NBT.2
	Unit 6 – Stories, Tables, and Graphs *Omit this unit and use for enrichment activities at the end of the year.		
	Unit 7 – Finding Fair Shares <i>Fractions</i> (9 Lessons, 25 Days) Investigation 1: Sharing Brownies – 5 Lessons (Omit sessions 1.4 – 1.6 and replace with 2 additional lessons -- Session 1.4A: Fractions on a Number Line and Session 1.4B: Comparing Fractions on Number Lines) Investigation 2: Many Ways to Make a Share – 4 Lessons Investigation 3: Introduction to Decimals – Omit *Additional lessons will be needed to address the standards related to fractions.	February 20 – March 24 5 weeks	3.NF.1, 3.NF.2 3.NF.3 3.G.2 3.OA.3, 3.OA.5 3.OA.7 3.NBT.1 3.NBT.2 3.MD.1
Quarter 4	Unit 2 – Surveys and Line Plots <i>Data Analysis and Measurement</i> (16 Lessons, 14 Days) Investigation 1: Representing and Describing Categorical Data – 8 Lessons Investigation 2: Representing and Describing Numerical Data – 3 Lessons (Omit sessions 2.3 – 2.7 and replace with 1 additional lesson -- Session 2.3A: Assessment: People in Your Home and Introducing Pictographs) Investigation 3: Collecting and Analyzing Measurement Data – 5 Lessons *Lessons will review linear measurement and introduce students to fractions of an inch and line plots with fractions. Adapt and supplement lessons as needed.	March 27 – April 21 3 weeks	3.MD.3 3.MD.4
	Unit 8 – How Many Hundreds? How Many Miles? <i>Addition, Subtraction, and the Number System 3</i> (19 Lessons, 10 Days) Investigation 1: Numbers in the Hundreds – 5 Lessons Investigation 2: Addition Strategies – 5 Lessons Investigation 3: Subtraction – 9 Lessons *Unit 8 will continue to develop concepts of place value and computational fluency. Several lessons can be combined and taught together. Select lessons based on your students' needs. *Use Unit 8 and additional resources to revisit and reinforce algebraic concepts such as arithmetic patterns, function tables, and equations with unknowns.	April 24 – May 5 2 weeks	3.OA.8 3.OA.9 3.NBT.2
	Review & EOG Tests *Units 6 and 9 can be used for enrichment activities at the end of the year.	May 8 – June 9 5 weeks	